

**ABSTRACT OF THE DISCLOSURE**

An on-line gloss/density meter for an electrostatographic reproduction apparatus in which pigmented marking particle images are fixed to receiver members respectively by application of heat and/or pressure as such receiver members travel along a transport path through a fuser assembly. The on-line gloss/density meter includes at least one light emitter and at least one light collector, respectively mounted in operative association with the transport path so that light from the emitter, reflected from a receiver member, and is detected and a signal corresponding to such reflected light is produced. A guide element is associated with the transport path and directs a receiver member into a predetermined specified location relative to the beam of light. A logic and control unit, responsive to signals from the light collector, precisely controls operating parameters for the electrostatographic reproduction apparatus.